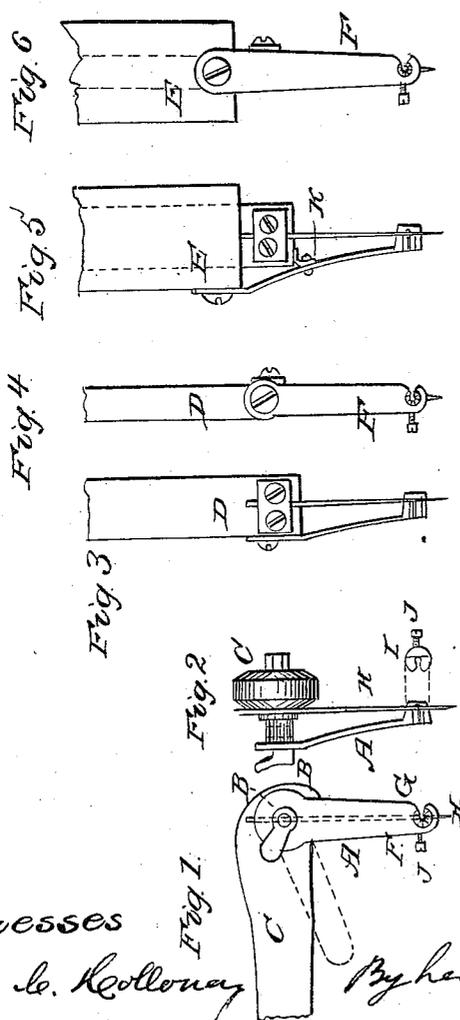


H. D. CONRAD.

Setting and Threading Needles in Sewing Machines.

No. 34,407.

Patented Feb. 18, 1862.



Witnesses
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UNITED STATES PATENT OFFICE.

HANNAH D. CONRAD, OF DAYTON, OHIO.

IMPROVEMENT IN SETTING AND THREADING NEEDLES IN SEWING-MACHINES.

Specification forming part of Letters Patent No. 34,407, dated February 18, 1862.

To all whom it may concern:

Be it known that I, HANNAH D. CONRAD, of Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Needle Threaders and Setters for Sewing-Machines; and I do hereby declare that the same are described and represented in the following specification and drawings.

To enable others skilled in the art to make and use my improvements, I will proceed to describe their construction and operation, referring to the drawings, in which the same letters indicate like parts in each of the figures.

The nature of my invention and improvements in needle threaders and setters for sewing-machines consists in pivoting or hinging the threader and setter to the arm or bar that carries or traverses the needle, or to the socket in which the needle-bar traverses, and providing the threader and setter with a set-screw to adjust it to needles of different sizes; also, in providing a stop for the end of the needle-bar when the threader and setter is pivoted or hinged to the needle-bar socket.

Figures 1 and 2 are side and front elevations of my improved needle threader and setter fastened to the vibrating arm that carries the needle. Figs. 3 and 4 show the threader and setter applied to the sliding needle-bar of a sewing-machine which carries the needle. Figs. 5 and 6 show the threader and setter applied to the stationary socket of a sewing-machine, in which the sliding bar that carries the needle traverses.

In the drawings, A is the needle threader and setter, made of metal in the form shown, or in such other form as will answer the purpose, and arranged to swing or vibrate on the pivot or screws B in the arm C, slide D, or socket E, as shown in the drawings. This threader and setter consists of a flat bar of metal with a hole in one end for the pivot or screws above mentioned, and a hub at the other end, provided with a conical or funnel-shaped perforation, F, to conduct the end of the thread into the eye of the needle. There is a notch or score, G, on one side of the hub, cut into the conical perforation, through which score the thread passes from the perforation, after the needle is threaded, as the threader and setter is swung from the needle H into the position shown by dotted lines in Fig. 1, where it is entirely out of the way of the op-

eration of the needle or other parts of the machine. To stop the threader and setter, when it is swung against the needle, so that the conical perforation will be opposite the eye of the needle, I make a projection, I, on the side of the perforation in the hub, so that it will come against the side of the needle, so as to stop when the conical hole is opposite the eye of the largest needle; and to adapt it to needles of different sizes I put a screw, J, through the projection I, which may be screwed more or less through the projection and come against the needle H, so as to stop the threader in a proper position to conduct the thread into the eye of the needle. This threader and setter may be held in position, when it is swung from the needle, by tightening the nut or screw that holds it.

When the threader and setter is applied to the socket in which the needle-bar traverses, as shown in Figs. 5 and 6, I make a stop, K, on the side of the threader and setter for the end of the needle-bar to rest on when the needle is set or threaded.

To set the eye of the needle opposite the threader, I run a fine needle through the conical perforation F and through the eye of the needle, then fasten the needle in its place withdraw the fine needle, and insert the thread and swing the threader out of the way; and when the thread breaks or runs out I swing the threader down to thread the needle again.

I believe I have described my improved needle threader and setter for sewing-machines so as to enable any person skilled in the art to make and use it.

I will now state what I desire to secure by Letters Patent, to wit:

1. In combination with a sewing-machine, the improved needle threader and setter described, pivoted or hinged to the needle arm or bar or to the needle-bar socket.

2. In combination with the improved needle threader and setter, pivoted or hinged as described, the stop K, for the purposes set forth.

3. In combination with the funnel F, the screw J, for adjusting the eyes of needles of different sizes opposite the termination of the funnel.

H. D. CONRAD.

Witnesses:

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